FIGURE 1A: SEQ ID NO 1 (DG747)

- 1 GAATTCCATA TGCACGATTA CATATATGAT GATCGTATCT ACAATAATGA TAAAGAGAAA
- 61 AATGTTATAA AAAGTGATAA TAAAAAATGTT ATAAAAAGTG ATAATAAAAA TGATTATAAA
- 121 AAGTGTAATA AAAATGTTAT AAAAAGTGAT AATAAAAATG TTATAAAAAG TGATAATAAA
- 181 AATGTGGAAT TC

FIGURE 1B: SEQ ID NO 2 (DG772)

- 1 GAATTCCCAG ATCCTCGAAG TAATGACCAA GAAGATGCTA CTGACGATGT TGTAGAAAAT
- 61 AGTAGAGATG ATAATAATAG TCTCTCTAAT AGCGTAGATA ATCAAAGTAA TGTTTTAAAT
- 121 AGAGAAGATC CTATTGCTTC TGAAACTGAA GTTGTAAGTG AACCTGAGGA TTCAAGTAGG
- 181 ATAATGACTA CAGAAGTTCC AAGTACTACT GTAAAACCCC CTGATGAAAA ACGATCTGAA
- 241 GAAGTAGGAG AAAAAGAAGC TAAAGAAATT AAAGTAGAAC CTGTTGTACC AAGAGCCATT
- 301 GGAGAACCAA TGGAAAATTC TGTGAGCGTA CAGTCCCCTC CTAAGGAATT C

FIGURE 1C: SEQ ID NO 3 (DG747)

- 1 EFHMHDYIYD DRIYNNDKEK NVIKSDNKNV IKSDNKNDYK KCNKNVIKSD NKNVIKSDNK
- 61 NVEF

FIGURE 1D: SEQ ID NO 4 (DG772)

- 1 EFPDPRSNDQ EDATDDVVEN SRDDNNSLSN SVDNQSNVLN REDPIASETE VVSEPEDSŞR
- 61 IMTTEVPSTT VKPPDEKRSE EVGEKEAKEI KVEPVVPRAI GEPMENSVSV OSPPKEF

FIGURE 1E: SEQ ID NOs 5-8:

SEQ ID NO 5: DNKNV

SEQ ID NO 6: DNKND

SEQ ID NO 7: DKEKNV

SEQ ID NO 8: KSDNKNV

FIGURE 2A:

	10	20	30	40	50	60	70	
	1	1	ī	1	ı	- 1		*
ATGAAGACG.	ACAAAAG	AAAATGACA	ATAATAACA'	TAGTACATTA:	י המשתממת שמים	! የአመጽ አአሮሮአር	' SATTTTTAAAAAGA	
• R R	о к				_		I F K K N	1
				• Y I M	• I G	• T R	F L K R	I
E D D	KR	K. • Q	• • н	STLO	RLD	KPC) F • K E	F
. 80	0.0	100			٠٠ , ٠.			
	9 0	100	. 110	120	130	. 14	0 150	
	l	ı	l	1	1	1	Li	
TCTTTACAA	rgtgatt'	TATATTTTT	rggatgaca <i>i</i>	ACAAAGAAAAA	GATGTTAGT.	AAGAAAAGA	AAAGCTCAATTGA	AG
SLQC	DL	Y F L	D D N	KEK	D V s	K K R	KAQĽK	
L Y N				r k k k				R
F T M	• F	I F F				E K K	•	
			•					G
160	170	180) 19	00 20	0 3.	10		
1	ı	1.					220 .230	
GATGAATATG	·	•	'	1	j] · }	
	ימייםמיים:	アムサイス かんぐかん	~~~~~~~~~	77 T T T T T T T T T T T T T T T T T T				
DFVF	ATAATAI	TATCAAGGAG	CAAAGAAAA	TATTAATAAT	TCCAAAAAA	TAAAAAT!	GAATTAAGTATAA	AA
D E Y D	<u> </u>	S R S	K E N	I N N	S K K J	ATAAAAAAT K N I	GAATTAAGTATAAA	A A
D E Y D	<u> </u>	S R S	K E N	TATTAATAAT I N N S L I I	S K K J	ATAAAAAATO K N I	GAATTAAGTATAAA E L S I K N • V • F	
D E Y D	<u> </u>	S R S	KEN	I N N	S K K J	KNI	E L S I K	
D E Y D	I I Y	S R S	K E N	I N N :	S K K J	- K M	E L S I K	ς.
D E Y D	I I Y	SRS ZQGA IKE	KEN KKI QRK	I N N S	S K K J	- K M	E L S I K N · V · F	K R
M N M	N I I Y	SRS ZQGA IKE	KEN KKI QRK	I N N S	SKK) PKK QKN	K N I	ELSIK N·V·F IKYK	K R
M N M	N I I Y Y 25	S R S Q G A I K E	KEN KKI QRK	I N N S	SKK) PKK QKN	K N I	E L S I K N · V · F	K R
M N M 240 GATAATAT	N I I Y Y 25	S R S Q G A I K E	KEN KKI QRK	I N N S	SKK) PKK QKN	K N I	E L S I K N · V · F	K R
M N M 240 GATAATATEE D N M E	O N I I I Y - Y 25	S R S Q G A I K E	KEN KKI QRK	INN LII Y · · F 270 2 I I I I ACAATAAN	PKK QKN 280	K N I	E L S I K N · V · F	K R
M N M 240 GATAATATEE D N M H	N I I I Y Y 25	S R S Q G A I K E	KEN KKI QRK	I N N S	PKK QKN 280	K N I	E L S I K N · V · F	K R

JEST AVAILABLE COPY

BEST AVAILABLE COPY

3/28

F. 159/430		1371151840		350%	治营在 021117	. History	र्वे । इ.स.च्या	Ö H	391
是其時間		经约299 739					是四個	III TANKA	
AAAAATGE	ATARAKAGTE	ARAMER'A A A A A A A A	ATTATA	AAAAG PG (C	O TOATE	va Alucavican	ANAAACI	CATATTA	AAAZ
KUNNIN	T WK SIMD	MER IN	HEAK	细型: 万相	WE KEN DE	WE TE W	STOP	N. EKHIN	
K MOUS	KILIVE C	TANK CAN	山海里	K-V/CI-	JIEK M	IS SHIPE		工作的	Ý
K-C	R K	estate (Striker)	Y K	Ki 👇 🧺	A KATO	and a Robert	KIT-	La Lacina	TC
1 4 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1977 I Book C. Samore March & Asses							1.	
and the second		TO 742	<u> </u>	430	440	450	4	160	
	Terapole, N. M C. Arenie			l	1	1	. 1	:	
GAUDAVIIATATA		AAR ESTURAJEA	AAAAGTO	<u>Aaataataa</u>	AATGTTAT:	AAAAAGTG/	AAATATTA	AGTGATG	AT
	5 DUNEUR	N HW TEK	S D	N K N	V I	K S D	Y K S	D D	
L		MIELS	K V 1	IK	M L •	K V I	I K	V M I	
YACA		K C Y K	· ·	• K	C Y K	K • I	. к	• •	•
	400	,							
470	480		500	510	520	53	80	540	
 		•	!	ı	1	ı		1	
D N N C	rgtgatattta:					TATATATA	GATGATA	ATAGTTC	A
E M L	V I F T			V P D		IY	D D N	s s	
KCL	• Y T. •		K K M		IA	I Y M	M I	I V Q	
к с в	- 1 Б	K • •	KK	C S •	• L P	Y I .	• •	• F 5	S
550	560	570	580	590	60	0	610	.620	
1	1	1	ı	1	1		1	,020 '1	
STTGAAAATT	TAGATGGAAAA	AATAAATTAAA	TAATAT	AAGGAACAT	ACATAATG	ATAACTCA:	ICTTCATO	יי מיימיים	
V E N L	DGK	N K L N	N I	RNI	H N D	_N S :	ssc	D I	
L K I	• M E K	I N · I		G T Y	-	I T H	LHA		
• K F	RWKK	• I K	• Y F	К Е Н	т • •	· L I	F M	R Y I	
				•					
630	640	650	660	67	0 (680	690	700	
I	i	1	1	1	-	ľ	t	1	
CCGATATAA	AAAGTGAAGAT	Gaatatataga	ACCATAT	GAAAAAAA	Gaatgaaga	AAATATAA	ATGAATA	ТААСААТ	
DIK	SEDI		_	E K K		N I N		K N	
P I • I	KVKW	N I · N	H M	K K R	MKK	· I ·	M N I	RI	
RYK	K • R •	IYR	r ı •	KKE	• R	күк	· 1	• E •	

710	720	730	740	750	. 760	770	780
. 1	1	1	1.	1	1		, , ,
AAGAAAAATATAGC	CAATGAAAAT	ATAAAAGAAG	GAAAGAGTTO	י 'בביד ביים אבר ביים ב	י רכבירכים אראיז		
	N E N					N Y N S	
R K I • P	мкі		E R V Q		MNT		_
EKYS	2 • K Y			N I	. т.	11	Y
						· L • F I	I
790	800	810	820	830	840	850	
	1	1	1 .	ı	1	1	
TTATATAATTCTTG	TAATGGTGAAA	TAAGTAAGAI	CAACAAAAT	AAGTAGTCAT	י ייים מיים מיים באמב'	! 'ር <u>ጋ</u> ጥስስጥስ አጥአጥር/	ת ת כ
	NGEI						
YIILV			T K •		IIL		<u>.</u>
I · F L ·	W • N		- -		1 1 L	"	I
			* * " '		• 1 •	• • Y G	•
860 870	880	890	900	910	92	0 000	
1 1	1		1	. 1	921	0 930	
AATTATAATACGTTT	GCAAATGTGA	ATAATTTTAT	' ልልጥልጥልጥጥርር	יתר בא בא חיכי א תיי ישר בא חיכי א תיי	 	 	
N Y N T F	ANVN	N F T	T Y 9	S D D	GAAGAIAAT	TATCAAATTATT	
IIIRL		I I L •	YIP	O M M			
L · Y V C	KCE		NIFT		<u>*</u>		I
	•		. <u> </u>	R • •	R • Y	IKLL	•
940 95	0 960	97	0 98	0 0			
1 1	1		98	0 99	90 1	.000 1010	כ
AATGGTAAAGACGTA	' የጥልልልጥርአጥርነ	\;	2000000000	I	l	i	
AATGGTAAAGACGTA'	N D E	AGAITATGTT(-CCTATAAAA				TF
MVKTY				FNFE	KLK	KNIY	
W·RRT		LCS		r i r	K N ·	KKIFF	1
K K I	к • •	DYV	YKI	• F •	K I K	$\mathbf{K} = \mathbf{K} - \mathbf{A} + \mathbf{\Gamma}$	С

1020	1030	7040	1050				
1020				1060	1070	1080	1090
i	•	1	1	ı	1	1	1
GTAATAGAGCATAT							
V I E H I	DKI	YDT	FLN	KNP	S E K	SVFM	N
· • s I •	T K Y	I M I	H F •	IKI	QVKK	V F I.	— • M
N R A Y I							
. 1100	1110	1120	1130	1140	1150		
ı	1	1	1	1140		1160 .	1170
CATCAATCTACTCC	•	•	 		I		ı
GATGAATCTACTGGT	TATTTGAAAA	ATGATGTGA	ATGACAAAT	GTGTTGTTG	ATAATATAAAT · .	GTTATTAATCO	TTCT
D E S T G	YLKN	DVN	D K C	V V D	NIN	V I N P	<u>s</u>
M N L L V							
• I Y W I	FEK	• C E	• Q M	c c •	• Y K C	Y • s	F •
1180	1190	1200	1210	1220	1230	1240	
1	1	1	1	i	1	1	
AGTGTGAATACGTTG	AGTAATATTT	CAAATATTA	GGAATGAAA	ממממממממם	! !ጥልስጥለስጥአክር:) חחת הההמחתה	
SVNTL							
V · I R ·	VTF	O T T C	. M V I	N	IIR	V E K L	<u>.I</u>
							•
CEYVE	- 1 F	V I •	E • K	NRK	• • E	. K I 1	1 K
1050 1050			•	,			
	1270	1280	129	90 13	00 131	1320)
1	ı	ľ	1.	. 1	1	1:	
AAATCATATCCTACA	CAATCAAAAA	ATGTTATGAG	TACATTTTC	CTTTTGGAA	TATTGAAAAGG	AGACATTTATA	ACA
KSYPT	2 S K N	V M S	T F S	F W N	IEKE	TFI	T
N H I L H	N Q K N	4 L • V	HFP	FGI	LKR	R H T.	
I I S Y T	I K K	CYE	YIF	L L E	Y • K G	DIV	¥ 1 ¥
				_ _		D I I N	ı K
1330 134	10 135	io 13	60 1	370	1380 1		
1 1	ī	1				390 14	00
AACCTTTGTATCCA	•	•	•		1	1	
AAACCTTTGTATGCAC	N T D	- X	ATTTAGTTT	ATTAGATGA!	atctgaagaga	TGATAAGAAAT	TAT
N I C M "	Z N L K	K K Q	F S L	T D E	SEEM	I R N	<u>Y</u>
NLCMH	v 1 • E	KNN	L V Y	• M N	L K R	E I	I
T F V C T	KFE	KKT	I • F '	T R • T		D 17 17 1	_

FIGURE 2A (suite)

1420 1430 1440 1450 1460 1470 1480 1 ${\tt TCATCTAATCAATATTCTATAAAATTTGTACCAAGACATTTATTATATGTAATGAGTCAAGTTGCTTCTCGATCCTTT$ S S N Q Y S I K F V P R H L L Y V M S Q V A S R S F H L I N I L · N L Y Q D I Y Y M · · V K L L L D P F I. · S I F Y K I C T K T F I I C N E S S C F S I L F 1500 1510 1490 1520 ı TTTGATCCTTTATATAGAAAGCAGTTATTTTTTCGTTACTAA FDPLYRKQLFFRY. LILYIESSYFFVT

· S F I · K A V I F S L L

.

* .

Figure 2B:

			•			
10	20	. 30	40	50	60 .	70 .
. 1	I	1	1 .	1	1	1 .
ATGAAAGGGAAA	AATGAATATGTGT	TTĠTTTTTTT	יים מיים מיים מיים מיים מיים מיים מיים	ጥልጥልጥርጥጥር	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	TATGTATTAGGT
мкск						TATGTATTAGGT
E V G V	M M C	L F F F	Y S I L	Y V V	L C T	YVLG
• K G K	• I C V	C F F S	I L Y	YMLy	YVP	M Y • V
EREN	N E Y V F	VFFI	FYI	I C C.	IMYI	CIRY
					1 M 1 1	CIRY
80 9	90 100	110	120	130	140	150
- 1	1	ì	ı	. 1		
ATAAGTGAAGAG	STATTTGAAGGAA	AGGCCCCA AGGT	ייייייי ייייייייייייייייייייייייייייי			
					TAATAATAAT	AATAATAATAAT
•	Y L K E	R P Q G	L N V E	T N N	NNN	N N N N
• V K S	I · R K	G P K V	· M L F	R L I I	I I I	IIIT
K • R V	F E G K	APRF	K C •	D • •		
	•					
160	170 18	30 190	200	22.0		
1	1	. 190	200	210	220	230
	1 1		ŀ	ı	1	j
AATAATAGTAAT.	AGTAACGATGCG	ATGTCTTTTGTA	AATGAAGTAAT	AAGGTTTAT	AGAAAACGAGA	AGGATGATAAA
			N E V I			
IIVI	V T M R		м к • •			
				G L •	KTR	R M J K
• .• • •	• R C D	VFCK	• S N	KVYI	R K R E	G • • R
240	250	260 25	70		•	•
2.10		260 27	70 28	0 29	90 30	310
1	1 .	1	1	1	1	ì
GAAGATAAAAA	Stgaagataatat	CTAGACCTGTTG	AGAATACATT	ACATAGATAT	CCAGTTAGTT	יייי איייייייייייייייייייייייייייייייי
EDKK	V K I I S	RPVF	NTL			_ •
KIKK			RIHY			F L. N
R • K S	EDNT				2 2 4	L F • I
•• •	N 1	- 1 6 •	EYI	r • I s	s · r	F S E Y

320	 330	340	350	360	27.0		
ı	1	1	1	1	370	380	39
ATCAAAAAGTATGG	TAGGAAAGGGG	י ארייתייתית מידי מובי	ነ አጥክሮክ አክመክረ		1	-	ì
ATCAAAAAGTATGG	פפפפת אינוייייייייייייייייייייייייייייייייייי	MAINITIGA	ATAGAAATA(TTTTGTTCAA	AGATCATATA	TAAGGGGTTG:	AAAT
I K K Y G	K K G E				RSYI	R G C	K
		<u>-</u>	IEIV	LFK	D H I	• G V V	K
Q K V W	• E R G	I F E	• K •	F C S K	I I Y	K G L	R
					٠.		
400	410	420	430	440	450	460	
1	i	1	1	1	1	1	
GGAAAAAGAAGCAC	ACATACATGGA'	TATGTGAAA	ATAAAGGGAA	TAATAATATA	igtattcctg/	TAGACGTGTA	CAA
G K R S T	H T W I	CEN	K G N	NNI	I P D	RRV	o
EKEAH	IHG	Y V K 1	KGI			D V Y	
KKKH	TYMD	M · K	• R E	• • Y M	Y S •	• T C T	I
							_
470 480	490	500	510	520	530	540	
1 1	1	1	1	1	1	1	
TTATGTATAACAGC	CTTCAAGATTI	'AAAAAATTC	AGGATCTGA	AACGACTGATA	י יריד מידידים מימבו.) } }	C. D. S.
L C I T A	LQDL	K N S	GSE	TTDR	К т. т.	D D W	.,
				RLI			_
MYNSS	SRF		R I • N		=		-
				_		K R • S	I
550 56	0 570	58	0 59	60	0 610	; 9 620)
11	1	I	· 1	1	3		
TTTGATTCAGCTATG	TATGAAACTGA	TTTGTTATG(GAATAAATAT	GGTTTTCGTG	SATTTGATGA1	╵ ݖ┸┸ႥႥႺႥႺă	ייחיתי
D S A M	Y E T D	LLW	N K Y	GFRG	F D D	F C D D	
r i ö r c	M K L I		_	VFV			•
• F S Y V	• N • 1	F V M E	w		I • • F		M
			•			` L • R	С
630	640 65	50 e	60	670 f		-	
1	1	, ,				90 7	00
TAAAAAATAGTTAT	TAGATTATAA	AGATGTTATA	. TTTCCA A CC		1	. 1	
KNSYI	DYK						ra
· K I V I	• I I K		LEP	I • I K		S K L V	
K K • L F	R L • R				- 	Q S •	•
	•		WNR	FR •	K • Y I	KVS	R

		710		720		730		740		750		76	0		776	0		780
		1		1		1		j		1		ı			ı			1
G.	AGGAAT	CATTA	AAACG	TTTTT	TTAAI	\AAAG!	ATAGT	AGTGT.	ACTTA	ATCCI	CACTO	CTTG	GTGG	AGA	Aggr	PATO	CAD	.C
	E S	L	K R	F F	_ K	K D		s . v			T A		W			Y G		
1	R N	н •	N V	F	L K	K J	r v	V Y	L	I L	L	L G		E	G .			O
	G I	I K	T	F F	• K	R	• .•	c :	r •	s Y	_ r _c		V E	_	_		÷ N	ν K
•						•					_	_			v	** ;	. 14	r
		790		800	ı	810		820)	83	ın		840			350 :		
		-1		1		1		1		1			1			.50 ,		
A	GACTAT	GGAAA.	ACTAT	GATAC	AGCCA	TATGO	TCATT	TAGGZ	מדכדא	י מממב	ርርሞር	ስጥ ር አ	~ n n m	~ n n c	, ,			
	L W				P													AT
) Y	G K	т.		S H			• D		E N							N	
	T M	E N	Y	- DT-	_ ••		S F	RM	•	- •	L :	M R				R		Ī
				•		Ū		IV P.		K T	•	• E	•	T	S	D :	. K	•
8		87	70	8:	BO	۵	90		00	•								
1		1	-	1		1		,	U,U	•	910		920	0		930)	
AG	ATGGA	, TTCTG6	באשרכנ	GGGGA	ስ ያ ነጥ አጥ ያ	•	M	 			l 		1			1 :		•
R	WI	TTCTGG L E															TTC	Τ
			N G	G 1	YI	ΙV							L 1	r G	E	<u>C</u>	<u>s</u>	
_		s G	с		· ·		_	• •		. K			•	Q :	E ì	N V	L	
			., .			L	· I	N E	G	E R	K	I V	N	R	R	M	F	С
	940	•	950		960													
	1		330		960		970		980		990)	1	000		1	010	
CT!	ነ ጥአአጥአር	אתתתת	} }	~ » « » «					1		1		ı			1		
t/	N D	AAAAA	AATCI	GACTG	CTCAA	CCGGA	ATGTA	TAAT	SAGTG'	TTATA	CCTA	TAGG	AGTC	TTAT	'TAA	TAG	ACA	A
L		K K								Y T	Y	R	S L	I	N	R	Q	
			N L	T A		P D	VI	M	s v	I	P I	G	v .	L I	, I	D	K	
	•	к к	I •	Ļ	L N	R M	•	• •	V 1	L Y	L	• E	S	Y	•	• ; :	r f	<
	100	•							•							:		
	102	O	103	0	104	0	105	0	106	50	1	070		108	0		109	90
	1		1		1		1		i		1			ł			ı	
AGA	YTATGA	GGTCT	CTATA'	TTAGG	AAAAA	AATAT.	ATTAA	AGTAG	TACGA	ATATA	CTAT	ATTT#	GGA	GAAA	AAT	Agti	CAA	
<u>R</u>	Y E	v s	I		K K	Y	I K	v v	R	Y T	I		R			v:		
D			Y	• E	K	N I	L K	•	Y D	I I	r v	L	G E	E K	•	F	 N	
I	• (G L	YI	R	K K	I Y	• ;	s s	T I	Y	Y J		E	K 1	N S	S. S.	T	

. 1100	1110	1120	1130	1140	. 1150	1160	1170
I	I	1	1	1	i	1	1
CCTGATAATGCTTT	GGATTTTTAA	ATTAAATT(STTCTGAGTG	TAAGGATATT	GATTTTAAACC	' '''''''''''''''''''''''''''''''''''	
P D N A L	D F L K	L N C	SEC	K D I	DFKP	FFF	E.
LIMLW	i F · N	7 I • 1	LSV	RIL		FLN	
	3 F F K					L F · '	_
		•		_			. •
1180	1190	1200	1210	1220	1230	1240	
1	1	ì	1	1	1230	1240	
GAATATGGTAAATA:	GAAGAAAATG	TATGTGTCA	ATCATATATI	' 'GATTTAAAA	י ልጥሮር ልጥጥጥ ል	! ልሽስጥስ አጥሮ አብ	
E Y G K Y	E E K C	мсо	SYI	DIK	T O F K	N N D	ATT
N M · V N M	K K N V	C V N	H · I L	I • K		N N D	<u> </u>
I w · I ·	RKM	y v s	I I Y •	FKN	P I •		
			·		F 1 5 .	К • • [У	L
1250 1260	1270	1280	1290	1300	1310		
1 - 1	1	1	1	1300	, 1310	1320	
TGTTCATTTAATGCT	CAAACAGATAC	IGTTTCTAG	' CGATAAAAGA	արատանաստան I	! . תם ת ת ת ת ת ת ת ת		
C S F N A	QTDT	v s s	D K R	F C T E	· v v D	TTTAAACCA	TGG
V H L M L	K Q I L	FLA	IKD	F V T.	K P K N	F K P	<u>w</u>
F I · C s	NRYO	: F • 1	<u>-</u>	T. S •	KERI	тин	G -
			-	2 0	K E K 1	· T M	. E
1330 13	40 1350	136	50 13*	70 13	80 139	,	
1 1	1	1	1		139	00 140	00
AAATGTGATAAAAAT	TCTTTTGAAACA	GTTCATCAT	•	して 。 。 。 。	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
K C D K N	5 F E T	V H H	KGVC	. V c b	CGAGAAGACAA	GGTTTTTGTT	TA
N N I K I	LLKQ	FII	KVV	V C P	R R Q	G F C I	<u> </u>
м • • к ғ	F · N S	s s ·	В С M	~ C n _			
			0 11	C V 1	EKIR	FLF	R
1410	420 14	30 1	440 1	450 -	1460 1	480 -	
1 1	ì	1			1400 1	470 1	480
GGAAATTTGAACTATC	TACTGAATGAT	GATATTTAT	י AATGTACATA	! מיזיר אר א איזית ב			_
G N L N Y I	LND	DIY	N V H N	S O T	I I E	ATTATAATGG	CT
E I · T I		I F I			LSK		
K F E L S	T E • •	Y L .			TYRN	A N G	F.

	1490	1500	1510	1520	1530	1540	1550	1560
	1	1	1	ł	1	I	1	1
TCTAA	ACAAGAAGGA	AAGTTATTAT	GGAAAAAACA	TGGAACAAT	ACTTGATAAC	CAGAATGCATG	CAAATATATA	AAT
s K	Q E G	KLLW	K K H	G T I	LDN	N A C	K Y I	N
Ļ N	K K E	S Y Y	G K N M	E Q Y	LIT	R M H A		<u></u> M
• 1	T R R K	V I M	E K T	W N N S	г • • ъ	E C M	O I Y K	
	1570	1580	1590	1600	1610	1620	1630	
	l	1	1	1	Ļ	1.	1	
GATAG	TATGTTGAT'	(ATAAAGATA)	AGTTATTGG	\AATGATTTA	TGGAATGATA	ACAACTCTAT	AAAAGTTCAA	1AP
D S	YVD	KDI	V I G	NDL	WNDN	NSI	KVOI	N
I V	MLI	I K I .	L L E	M I Y	G M I	T T L	KFK	т Т
• I	. с • г	• R Y	SYWR	· F M	E • •	Q L Y E	SSK	•
1640	1650	1660	1670	1690	3.600		•	
1	1	1	1	1000			17,10	
AATTTA	. AAጥጥጥ A ጥጥጥ	•	™™™™CCM™™™			ì	4 ;	
N T.	N T. T F	F D N	T C V	MAAGTTGGA	AGAAATAAAC' -	ICTTTAAAACA	Attaaagaat	'TA
I •		LKEI	r G I	A V G	RNKL	F K T	IKEL	!
	FNF					S L K Q		•
	•				к • т	L · N N	• R.I	K
172	0 173	0 1740	175	0 176	50 177	0 178	0 179	n
i	1	1	1		1	1		
AAAAAT	GTATGGTGGA	PATTAAATAG?	\AATAAAGTA	rgggaatca <i>i</i>	TGAGATGTGG	AATTGACGAA	TAGATCAAC	ىلەت س
KNV	V W W I	L N R	NKV	V E S M	RCG	I D E. V	4 O O V	
K M	YGG	Y · I E	I K Y	G N Q	• D V E	L T K	• I N 1	
к с	M V D	I K • F	· s m	G I N	E M W	N · R S	RST	-
1.8	300 18	310 18	20 20				:	
1	1		20 18			850 18	360 18	370
AGAAAA	•		OM2 02 2 2 2 0 0			1	* : 1	
RKT	CILGIGAMA	AATAGATGAA	CTAGAAAACA	TGCCACAAT	TCTTTAGATG	GTTTTCACAA1	'GGGCACATTI	'C
E K	LVKE	I D E	L E N M	POF	F R W	F S Q W	A H F	
		•••	• K T	CHN		F H N	с ні з	•
7, 14	7 - V	N R · T	R K H	I T A	T . W A	FTM	G T F	L

	1880	1890	1900	1910	1920	1930	1940	195
	1	1	i	1	1	1	1	1
TTTT	GTAAGGAAAAA	Gaatattggg!	TTAAAATTAA	AAATGATAA	ATGTACAGGI	'AATAATGGAA	AATCCTTATGT	
	K E. K							O
	J R K K		1 • N •	MIN	v o v		N P Y V	<u> </u>
L	• G K R	I L G	IKII	K • • N	Y R •		I L M S	
					•		1 L M : 5	G
	1960	1970	1980	1990	2000	2010	2020	
	1	1	ı	1	1	2010		
GATAA	AACATGTCAA	ATGTGTGTAC	י רמבדמדמבר:	י רדבידרככבים	ጥ ከጥ ከ ርጥ አ ር አ	7 7 7 MM 2 CCMM 2	 ATGAAATACAA!	
D K							E I Q	
	H V K	MCVI	T . T	T C "				_
	N M S K					N • L M		P
		C V I	· 1 E 1	י ט ט ד	Y • K	I S L	• N T I	R
2030	2040	2050	2060	0070	·.		•	
1	1	1	2060		2080	2090	2100	•
	•	•	7 WWW 2 CW CWW			1	1	
V K							AAAGGAAAATG	
• N		I E N Y	r S L	A K D I	K N V 7	TFL	K E N'A	<u>:</u>
K						L H F •		Q
ĸ.	ı · · ĸ	• K I :	·sc	• R Q	KCN	YIF	кскс	K
21:	10 . 212	0 2130	214	0 215	50 21	.60 21°	70 218	n
ł	1	1		1	1	1	i	_
RAAAA	TTGTTCTAATA	ragattttac <i>i</i>	AAAATATTC	GATCAGCTTG	ACAAACTCT	TTAAGGAAAG	ATGTTCATGTA	TC
K N	C S N I	DFT	KIF	QL	KLF	KER	C S C M	-0
K I	V L I		K Y S					N.T
K I	L F • Y					• G K M	•	•
								G
2	2190 22	200 22	10 22	220 2	230	2240 2	250 . 22	
1	1	1	J	1				260
GATACA	CAAGTTTTAGA	AGTAAAAAAC	Aaagaaatgi	ТАТСТАТАС	מרתר ב ב מידים מרתר ב ב מידים	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	l ACAGATATAA	
	Q V L E	V K N	KEMI	SID	. c n c	E D A	ACAGATATAAG	ST
I H	K F • K		ккс					_
Y T	SFR				L'K •	KMR	•	
		*	•• V	K	n v .	• R C D	RYK	•

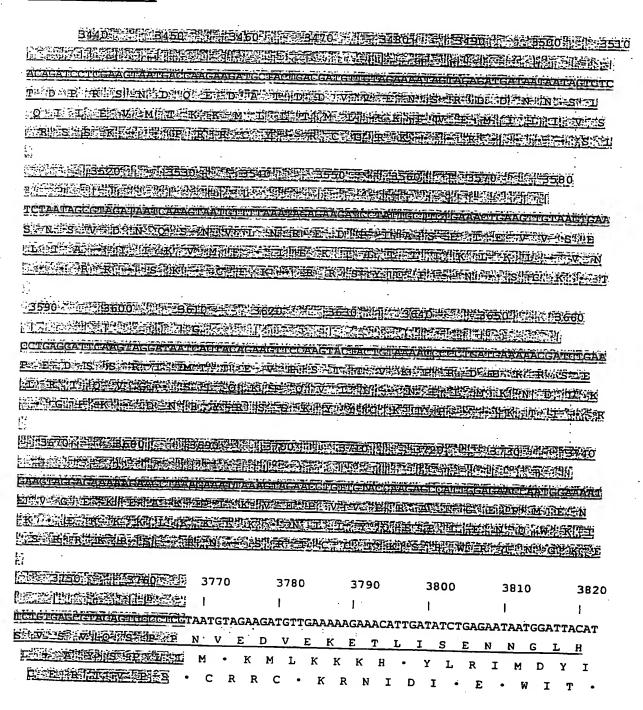
					•			
	2270	2280	2290	2300	2310	2320	2330	234
	1 .	1 .	1	ı	1	1.	1	1
	GAGAAAAATGGAGAG	GAAGAATTAT.	ATGTAAATCA	CAATTCTGTG	AGTGTCGC			1
	E K N G E	E E L Y	V N H	N S V	SVA	S C N K	T T D	MAG
	RKMER	KNY			v s o			
	E K W R G	RII				v v i i	KKSK	R
					C K	. ,	R N R F	(E
	2350	2360	2370	2380	2300	2400		
	1	i	1	1	5390	2400	2410	
	AGTAAGGATGAAAAG	CAACCTGAAA	י אבממברמממ	•		, 	_	
	SKDEK) b e k	F N V	ACAAACTAAT	GGAACTTTA	ACCGTACGAAC ·	TGACAAAGAT	TCA
	SKDEKO	N T K L	Z A A	Q T N	<u> </u>	T V R T	D K D	<u>s</u>
	V R M K S • G • K A	T	. r o r .					_
	, , , , , , , , , , , , , , , , , , ,	1 - K	K S K	T. N • M	NFN	R T N	· Q R F	R
	2420 2430	2440	0.50	_	•		•	
	1 1			2460	247	2480	2490	
	•	1		1	1	1	1:	
	GATAGAAACAAAGGAA	AAGATACAGC	TACTGATAC	AAAAATTCAC	CTGAAAAT	TAAAAGTACA	GGAACATGGA	ACA
	D R N K G K	D T A	T D T	KNSF	ENI	KVQ	E H G	<u>r</u>
			LIQ	кін	L K I	• K Y R	N M E	Q
	• K Q R K	K Y S	Y • Y K	KFT	• K F	K S T (S T W N	ĸ
	2500 251					•		
	2300 251	0 252	0 253	0 254	0 25	50 256	50 257	0.
	, I		Í	I	1	1	1	
	AATGGAGAAACAATAA	AAGAAGAACC <i>I</i>	ACCAAAATTA	CCTGAATCAT	CTGAAACAT	TACAATCACAA	GAACAATTAG	AA
	NGETIK	_E E P	PKL	P E S S	E T L	Q s Q	E Q L E	
	MEKQ • 1	KKNH	Q N Y	LNH	r k h	Y N H K	N N	K
	WRNNK	RRTI	KIT	· I I	• N I	T I T R	TIR	s
							,	
	2580 25	590 26	500 20	610 20	520	2630 2	640 2	650
	. 1	1.	,	1		l i	1	
(GCAGAAGCACAAAAAC	AAAACAAGAA	GAAGAACCA	AAAAAAAAAC	AGAAGAAG	ACCAAAAAA	AAACAAGAAG	A.A
2	E A Q K Q	K Q E	E E P F	к к о	EEE	PKKI	K Q E E	
	QKHKNK	NKK	K N Q	K K N F	KKN	QKK	NKK	ζ.
	RSTKT	KTRR	R T K	K K T	RRR	T K K K	TRR	R

2660	2670	2680	2690	2700.	2710	2720	
1	. 4	1	1	2.00	. 2710	2720	2730
GAACAAAAACGA	GAACAAGAACAA	י ממרממהממר	' 'ススCススCス	77677677	!		4 -
EOKR	GAACAAGAACAAA FOFOK		DANDANDAAG	AAGAACAAAA	ACAAGAAGAAG	AACAACAAAT	ACAA
N K N F.	E Q E Q K						
TKTR					K K K	N N K X	ĸ
INIR	TRTK	TRT	RRR	RTK	R R R	TTN	r R
	_			,			
2740	_,	2760	2770	2780	2790	2800	
· I	1.	1	1	1	1	1	
GATCAATCACAA	AGTGGATTAGATC	AATCCTCAA!	AAGTAGGAG	TAGCGAGTGA	CAAAATGAAAT	TTCTTCAGGA	CAA
D Q S Q S	GLDQ	S S K	v g v	A S E	QNEI	S S G	0
			K • E				¥ K
S I T K	WIRS	I L K	S R S	S E • 1		- 2 2	
		•			••	- 1 1	K
2810 28	20 2830	2840	285	50 286	0 2870		•
1	1	1	1	1	20,0	2880	
GAACAAAACGTAA	AAAGCTCTTCACC	TGAAGTAGT	•	,	[
E Q N V K	SSSP	F V V	P 0 F	T T	GAAAATGGGTC	ATCACAAGAC	ACA
N K T •	KALHL	K • F	F Q E	TTS	E N G S	S Q D :	<u>r</u>
TKRK		• S S				нкт	Q
-	K D I I		STR	N N • •	K W V	I T R'H	K
2890	2900 291	0 29:	20 2	930 29	940 29	50 296	
1	l ı	1	1		1	, zs.	
AAAATATCAAGTAC	CTGAACCAAATGA	GAATTCTGT	TGTAGATAG	AGCAACAGATZ	י AGTATGAATTT		
K I S S T	E P N E	N S V	V D R	ATDS	M N T	GAICCIGAAA	AG.
K Y Q V I	NOMR	ILL	• I E	0 0 1			
NIKY	• T K • F		2 R • §			ILK	
					YEFF	R S · K	G
2970	2980 29	200 =	3000		- 0		
1	1 1	-		3010	3020 3	030 3	040
GTTCATAATCAAAA	Three creations			1.	1 1	1	
GTTCATAATGAAAA V H N E N	M S D D	MATACAAAT	'ACTGAACCA	GATGCATCTT	TAAAAGATGAT	AAGAAGGAAG:	ГT
FIMKI					K D D	K K E V	
				M H L	· K M I	RRKI	
S • • K	Y E · S K	YKY	- T R	CIF	K R	E G 'S	

3050	3060	3070	3080	3090	3100	3110	312
1	1	1 .	1	ı	1	1	1
GATGATGCCAAAA	AAGAACTTCAAT	CTACTGTATC	AAGAATTGA	ATCTAATGA	ACAGGACGTTC	AAAGTACACC	
D D A K K	E'L Q S	T V S	RIE	SNE	O D V O	S T D	D.
M M P K					-	K V H H	- .
• C · Q K					CRS		-
						* 1 1	
3130	3140	3150	. 3160	3170	3180	3190	
I	1 -		1	ı	1	1	
GAAGATACTCCTA	CTGTTGAAGGAAA	AGTAGGAGA:	TAAAGCAGA	AATGTTAACI	TCTCCGCATG		יייטייי
E D T P T	V E G K	V G D	K A E	M L T	S P H A	T D N	101
KILLI	LKER	• E I	кок	C • L	T. R M I	2 0 7 7	<u>. </u>
R Y S Y	C • R K	SRR	SRI	NVNF	SAC	U B • E	. Li
3200 321	0 3220	3230	3240	325	0 3260	3270	
l j	1	1	ı	i	1	. 3270	
GAGTCGGAATCAGG	TTTAAATCCAAC	TGATGACATI	AAAACAACI	GATGGTGTT	GTTAAAGAACA	יי AGAAATATTA	ece
E S E S G	LNPT	DDI	K T T	D G V	VKEO	E I I	6
SRNQV	· I Q L	M T L	K Q L	M V L	L K N K	К У •	e =
VGIR	F K S N	• • н •	N N .	W C C	• R T	R N I R	G
							Ū
3280 3	290 330	331	0 33	20 33	330 33	40 335	50
. 1	1	1 :	1	ı	1	1	
GGAGGTGAAAGTGC.	AACTGAAACATC	\aaaagtaat	TTAGAAAAA	CCTAAGGATO	STTGAACCTTC	TCATGAAATAT	CT
G G E S A	TETS	K S N	L E K	PKDI	7 E P S	HETS	3
EVKVQ	L K H Q	K V I	• K N	L R M	LNLL	MKY	L .
R · K C I	N - NIF	K • F	R K T	• G C	• T F S	s • N I	•
	-					•	
3360	3370 33	33 33	390 :	3400	3410	3420 3	430
1	1	•		l	1 1	1	
GAACCTGTTCTTTCT	GGTACAACTGGT	'AAAGAAGAA1	CAGAGTTA	Taaaaagta	AATCGATAGAG	ACGAAGGGGG	AA
E P V L S	G T T G	KEES	ELI	KSK	SIE	T K G E	
NLFFL	A O T A	K K N	Q S Y	• K V	N R · R	R R G	K
TCSFW	Y N W •	RRI	R V I	к к •	I D R D	E G G	N

JEST AVAILABLE COPY

16/28



	3830	3840	3850	3860	3870	3880	3890	3000
	ŀ	1	. 1	1 .	1			
AAT	GATACACAC	NGAGGAAATATO	•	-	•) 	 GAAGCGGGTAGT	!
							AAGCGGGTAGT E <u>A</u> GS	
M			VKR					
	Y T Q	R K Y Q					KRVV	-
	_		,				S G • Y	N
	3910	3920	3930	3940	3950	3960	3970 [.]	
	. 1	1	1	1	1	. 1	3970	
ATAI	TAGATGATT	CTAGAAGAAAT	GGAGAAATGA	CAGAAGGTA	' SCGAAAGTGAT	י ביייה איז	'TACAAGAACAT	3 D CC
							Q E H. I	
		LEEM						_
		• K K W					YKNI	I
		-	•				1 K 1 .	r
398	30 39	90 400	0 401	0 402	20 403	0 404	0 4050	
i	1	1	1	1	1	1	1 ,	
TTTA	GCACACAAC	AAAAAGATGAA	AAAGATTTTG	ACCAAATTGO	GAGCGATAGA	GAAAAAGAAG	, Aaattcaaaaat	מיזיי
F S	TQQ	KDE	K D F D	QIA	SDR	E K E E	I Q K I	IA
		K K M K					K F K N	
•	H T T	K R • K	R F ·	P N C	E R • R	KRR	NSKI	T
								•
4	060 4	1070 40	080 40	90 4	100 4:	110 4:	L20 413	o
1	I	1	. 1	1		1		
CTTA	ATATAGGACA	TGAAGAGGAT	AAGATGTATT	'AAAAATGGA	TAGAACAGAGG	ATAGTATGA	STGATGGAGTTA	AT
L N	I G H	E E D E	D V L	K M D	RTE	S M S	DGVN	
L :	I • D M	KRM	K M Y •	K W I	E Q R	1 V • V		I
•	Y R T	• R G •	R C I	K N G	N R G	• Y E	• W S	•
					•		:	
	4140	4150	4160	4170	4180	4190	4200 : 42	210
	1	1	1	1	. 1	ı	1	
AGTC	ATTTGTATTA	TAATAATCTAT	CAAGTGAAGA	AAAAATGGAA	CAATAȚAATA	ATAGAGATGO	TTCTAAAGATAC	SA
s H	L Y Y	N N L S	S E E	K M E	QYNN	RDA	SKDR	
V I			Q V K K	K W N	NII	I E M L	LKIF	:
s	FVL	• • S I	K • R	KNGI				

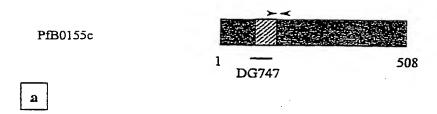
4220 4230	4240	4250	4260	4270	4280	429
1 1	I	1	ı	1		1
GAAGAAATATTGAATAGGTCAA	ACACAAATACATG	TTCTAATGA	ACATTCATTA	AAATATTGTCA		
E E I L N R S N						
K K Y · I G Q 7	QIHV	LMN	I H •	NIVN	I T W K	<u>.</u>
R N I E • V K	н к у м	F • •	TFIK	ILS	I Y G K	K
4300 4310	4320	4330	4340	4350		
	1	. 1330	4340	4350	4360	
AATAAGGATTTATTAGAAACATG	•	•	! የጥጥን ጥርጥጥርጥ	[
N K D L L E T C						
I R I Y • K H V	I K T K	<u> </u>	т с с	E I S D	Y C L	<u>K</u>
• G F I R N M						
4370 4380 43	90 4400	4410	442	0 4430		
	1	ı	1	1.50	1 -	
TTTTTCAATCCTAAATCGATAGA	ATACTTTGATTGT	TACACAAAAA	GAATTTGAT() C N ·
F F N P K S I E	Y F D C	T Q K	E F D I) P T Y	N C F: I	iga i
F S I L N R • N	T L I V	нкк	N L M	TLHT	IVL	-
FQS • I D R	L · L Y	TKR	I • •	P Y I	L F	
4450 4460 4	470 448	0 44	90 45	.00 451		
	· I	1		I 42T	.0 452 :	O
AAACAAAGATTTACAAGTATGTCA	TGTTATAAAATT	•			,	
K Q R F T S M S	СУКІ	KNN	T H • V	. V N E	MAAAATAATA	TA
N K D T O A C H	VIKL	KTI	Y T N	M T. T E	K N N I	
T K I Y K Y V M	L • N •	K Q Y	TLI	C • • K	K • A	ĭ
4530 4540	4550 44	560	1570			
1 1	1					600
TTTTTTTCTCTTTTTTTTTTTT	•] 		
FFSLFLFF	· · V C	ALIATATIGO	CGGGGGTGG	TATAATAGCCC	CTTTATTGTT:	ГA
F F S L F L F F F F F F F F F F F F F F	NRVA		. G V V	• • P]	LACT	
F F. L F F F F F F F F F F F F F F F F F	T G M "	A	K G W	Y N S P	F I V Y	
F F S F S F F L	1 G M H	1 1 A	GGG	I I A L	L L F	<u>I</u>

4610	4620 46	30 4640	4650	4660	4670	4680
· 1	. 1	ì	1	J	1	Į
TTTTAGGTTCAGCCA	GCTATAGGAAGAAT	rtgtaagaaaa.	AAGGATGAAGA	AATATAAACAAAA	ATATAAATA:	TATG
F · V Q P	A I G R I	с к к к	RMKK	Y K Q 'K	Y · K Y	М
F R F S Q	T . E. E E	VRK	G · R	NINKN	! :I N T	
	YRKNI					
·.		-			·	
4690	4700	1710 47	20 473	0 4740	4750	
1				1	1	
CATATATATTTAAGT	ATTATAAGAACATAT	ATATAAATAAA	TATGTATATTT	TTATTTTATTATT	· ATAGGGATĠΔ	TGA
H I Y L S	I I R T Y	I - I N	MYIF	'I L T. T.		·
I Y I • V	·L · E H I	ук • і	CIF	LFVVV	B D D	·
Y I F K Y	YKNIY	INK	YVYF	-	T C M M	<u>-</u> -
			_		; ;	ĸ
4760 4770	4780	4790	4800 41	310 4820	4020	
1				1	. I	
AAAAGGATTCTACGA	ITCTAATTTAAATGA	TTCTGCTTTTG				
KRILRI	F • F K •	F C F •	I • • •	• T • •	ATTACCTTA:	TAT
KGFYD	S N L N D	SAFE	YNN	I K V N E	т т т)	
K D S T I	L I · M I	LLLI	N I T T	TNTT	L P Y	<u>M</u>
					, 1 7 1	C
4840 485	50 4860	4870	4880	4890 490	,	•
1		ı	_	1 1	0 491	.0
GTGTAAGGAAAAACT	ААААААСАААААА	AAAAAAATATA			TCC METERS	
V • G K N •	K T K K I	KKNI	Y T Y T	V T V C	IGCATITCCA	.CA
C K E K T	K K Q K K	K K I Y	T Y T V		C I S. T	
V R K K L	K N K K K	K K Y I	1 Y T Y	7	AFP	н
				- 1 L K M	н н	1
4920 4	930 4940	4950	4960	4970		
1 1		ı	. 1000	1970 4	980 4	990
TTCCTATTATTTCTTA	TTCTTATAATTTTTA	•			, i	
F L L F L I	LIIFI	Í Y T	F T F F			
SYYFL	F L · F L	LFTV		F K S • 5	STNK	<u></u>
PIISY	S Y N F Y	YLFT	A t E .	<u>v v D</u>	QQI	1
	- -	1		: 5 • 1. І	N K ·	M

FIGURE 2B (suite)

5010 5020 5030 5040 5050 1 1 ${\tt TGTAGTAAATTCTGATTTATATTCGGAGGGTATTTATGATGACACAACGACATTTTAA}$ C S K F · F I F G G Y L · · V V N S D L Y S E G I Y D D T T F • · · I L I Y I R R V F M M

11 No. 1 2 2 412



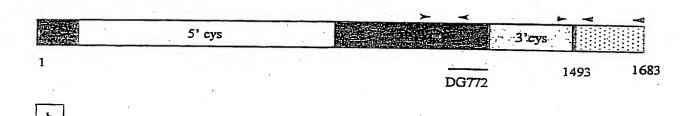


Figure 3.1

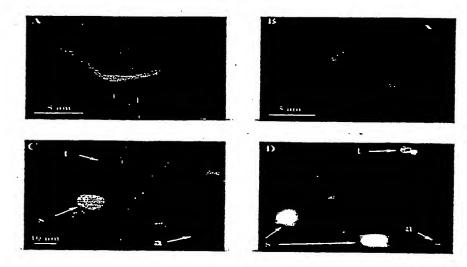


Figure 3.2

BEST AVAILABLE COPY

Figure 3.3

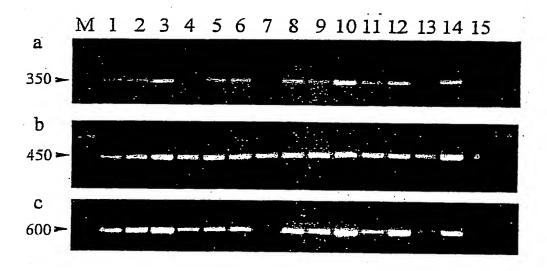


Figure 3.4

BEST AVAILABLE COPY

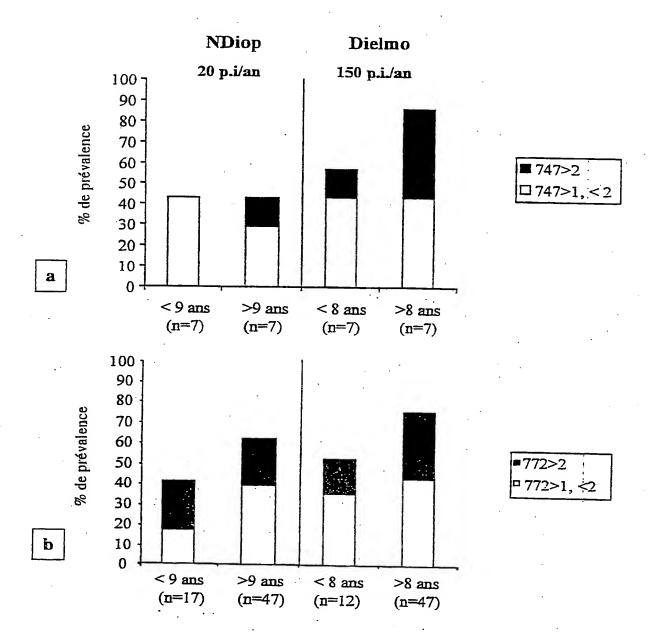


Figure 3.5

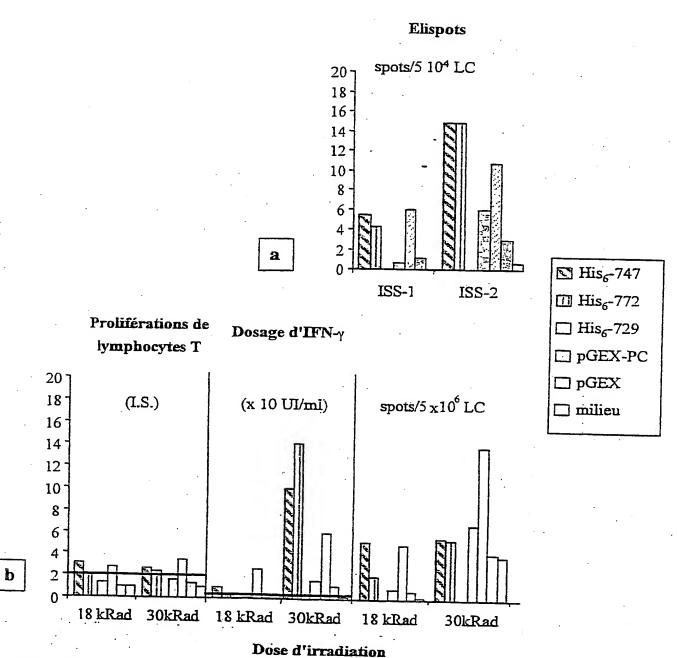
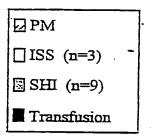


Figure 3.6



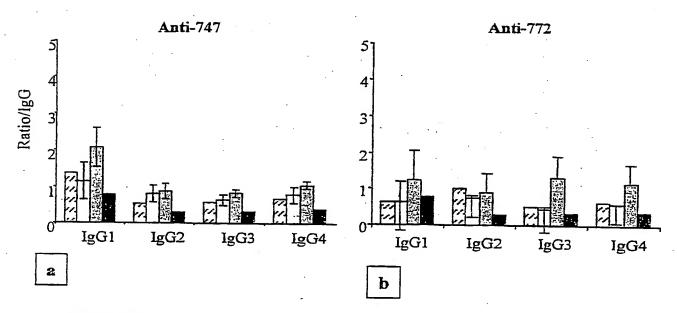


Figure 3.7

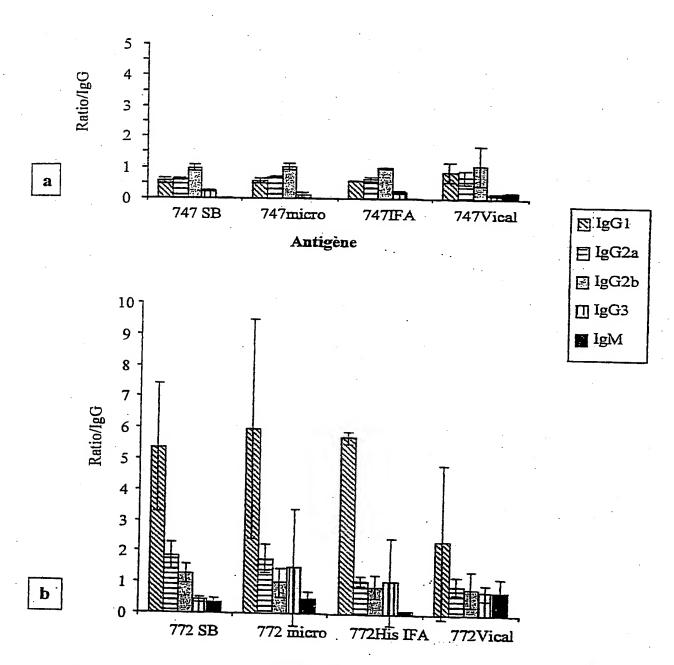


Figure 3.8

Antigène